

INDEX TO VOLUME 78—1978

- Acropteroxys gracilis*, life on ragweed, 304
 Alexander, C. A., 245
 Amino acid derivatives, immune response, 100
 Amino sugar derivatives, immune response, 100
 Amphibian embryo development and diquat, 50
 Anderson, Dennis, M., 177
 Announcements, 2, 58, 110, 238, I (78(6))
 Antigenic relationships, *Pseudomonadaceae*, 29
 Aquatic biologist's view, environmental impact assessment, 229
Asellus r. racovitzai, in Lake Eric, 298
 Ashton, A. D., 106
 Atrial veins in dog hearts, 119
 Au, R.-J., 318
 Auerbach, Stanley I., 163
 Avian bone fractures, effects of estrogen and hypergravity, 124
- Babiak, R., 88
Bandicota bengulensis, reproductive patterns, 44
 Bandicoot rat, reproductive patterns, 44
 Barcus, B. L., 255
 Barrett, Gary W., 160, 204
 Bauer, B. H., 144
 Bayesian concerns, multiple linear regressions, 47
 Berra, T. M., 318
 Biologist's role in environmental assessment and planning, 225
 Bimber, D. L., 50
 Bindra, O. S., 44
 Bitterlich sampling technique, 26
 Black spot disease in fishes, 318
 Blozis, G. G., 88
 Bookhout, T. A., 70
 Branson, B. A., 144
 Brenner, F. J., 34
 Bruggers, R. L., 39
 Bufford, Samuel, 223
- Caley, E. R., 129
 Camp, M. J., 111
Candida albicans, oral cavity, 38
 Canine dirofilariasis, 106
 Cappy, J. J., 267
 Carbon dioxide, use by Trypanorhynchid cestode, 152
 Cardinals, vocal responses, 85
Cardinalis cardinalis, vocal responses, 85
 Cattle egret nesting in Lake Erie, 69
 Cedar Fork Creek, black spot disease in fishes, 318
 Chang, L. L. Y., 272
 Chemistry, of old northwest, 59
 Chimney, M. J., 280
 China, geographic research, 239
 Chipmunks, vocalizations in, 301
Chlorella sorokiniana, nutrient requirements, 79
 Chlorophyll, response of soybeans, 267
 Chorpenning, F. W., 29
 Cleveland harbor, zooplankton in, 18
 Clifford, D. H., 92
 Coho salmon, iron effects on hatchability, 34
- Cole, M. C., 119
 Colewell, S. T., 144
 Color patterns, Pennsylvanian gastropods, 3
 Computer, estimation of explosive hazard, 245
 Contractile filament stress, disease in man, 259
 Cooper, William E., 186
 Cooper, W. L., 34
Cordylophora lacustris, new records, 280
Craspedacusta sowerbyi, new records, 280
 Crustacean zooplankton in Lake Eric, 18
 Cysticeroid, hosts of in *Hymenolepis diminuta*, 149
 Czaika, S. C., 18
- Dauids, D., 103
 Decker, M. A., 124
 Deonier, D. L., 154
 DiDio, L. J. A., 119
 Diptera: Ephydriidae, new records, 154
 Diquat effects on amphibian embryos, 50
 Dirofilariasis, canine, 106
 Dogs, atrial veins in heart, 119
Drosophila melanogaster, spontaneous recombination, 310
 Ducks, mandarin, feather morphology, 39
 Dugan, P. R., 29
- Ecology, medical, 290
 Ecosystem analysis; impact assessment, 163
 Ecosystems, natural, stress effects on, 160, 175
 Egret, nesting in Lake Erie, 69
 Electrode design and location, impedance pneumography in mice, 82
 Embryo development of amphibians affected by diquat, 50
 Environmental analysis and evaluation, 177
 Environmental evaluation and analysis, 177
 Environmental impact assessment:
 Aquatic biologist's view, 229
 Biologist's role, 225
 Environmental impact statements, 223
 Introduction, 204
 Terrestrial biologist's view, 235
 Epidemiology, *Candida*, oral cavity, 88
 Erwin, F., 103
 Estrogen, effects on bone fractures, 124
 Ewing, K. L., 82
 Explosive hazard, computer estimated, 245
 Eyster, C., 79
- Faeth, S. H., 91
 Feather morphology, age indicator in mandarin ducks, 39
 Filippi, J. A., 100
 Fishes:
 Black spot disease in, 318
 in Southwestern Ohio, 144
 Floc-forming *Pseudomonadaceae*, antigenic relationships, 29
 Forest, Bitterlich sampling technique, 26
 Freedman, E., 245
 Friction cracks, indicators of glacial flow, 11
 Fugita, S. S., 47

- Gallati, W. W., 149
 Gastropods, Pennsylvanian, 3
 Geographic research, China, 239
 Ginder, A. L., 111
 Glacial flow, shown by friction cracks, 11
 Gottfried, A. H., 85
 Gottfried, B. R., 85
 Grood, E. S., 259
- Hansen, M., 103
 Hatchability of Coho salmon, 34
 Haver, G., 103
 Hawks, red-tailed, interactions, 323
 Heart, atrial veins in dogs, 119
 Heicher, D. S., 149
 Held, M. E., 26
Heliospongia ramosa in Ohio, 296
 Herbivory, May apple, 91
 Herdendorf, Charles E., 229
 History, Chem. Dept., Ohio State Univ., 129
 Hoare, R. D., 3, 296
 Hoyland, J. R., 245
Hymenolpis diminuta, cysticeroid hosts in, 149
 Hypergravity, avian bone fractures, 124
 Hypothesis testing, management-oriented, 190
- Ihde, A. J., 59
 Immigration, White-footed mice, 282
 Immune response, Amino acid and sugar derivatives, 100
 Impact assessment, consultant's view, 227
 Impact assessment; ecosystem analysis, 163
 Impedance pneumography in mice, 82
 Interchromosomal effect, drosophila, 310
 Iron hydroxide, Coho salmon hatchability, 34
 Isopod history and ecology in Lake Erie, 298
- Jackson, William B., 235
- Kepler, Jack E., 225
 Kerr, J. R., 298
 King, Charles C., 177
 Kirkley, J. S., 323
- Lacustrine deposit, Darke Co., OH, 111
 Lake Erie:
 Cattle egret nesting, 69
 Isopods in, 000
 Zooplankton in, 18
 Lessler, M. A., 124
 Lewis, E. L., 47
 Lewis, N. J., 100
 Lindsay, S. F., 70
 Lipsey, L. L., Jr., 280
 Long, M. M., 92
- Ma, L. J. C., 239
 Mammoth site, radiocarbon-dated, 103
 Mandarin ducks, feather morphology, 39
 Management-oriented hypothesis testing, 190
 Marion, OH, mammoth site, 103
 May apple, herbivory, 91
 McConnell, C. T., 255
 McCormick, Jack, 227
 McNeil, K. A., 47
 Medical ecology, 298
 Metabolism, oxidative, bone fractures, 124
 Mice, impedance penumography in, 82
 Mice, white-footed, immigration, 282
 Mineralogy of Pugh Quarry, 272
 Mitchell, L. E., 282
 Mitchell, R. A., 50
 Mollusca, Pleistocene, 111
 Mt. Desert Island, friction cracks, 11
 Mount, Donald I., 175
 Multiple linear regression models, 47
- Mecrology, list of, 1978, 284
 Negulesco, J. A., 124
 New publications received, 156
 Newman, I., 47, 96
 Noble, A. G., 239
 Noble, R. D., 267
 Northwest, old, chemistry of, 59
- Ohio Academy of Science, Officers list, 158
 Ohio:
 Acropteroxys gracilis on ragweed, 304
 Bitterlich sampling technique, 26
 Black spot disease in fishes, 318
 Color patterns, Pennsylvanian gastropods, 3
 Environmental evaluation; analysis, 177
 Fishes of Southwestern, 144
 Oldfield vegetational changes, 255
 Plants in strip-mined areas, 70
 Shore flies, new records, 154
 Sphalerite in Pugh Quarry, 272
 Ohio State Univ., Chem. Dept. history, 129
 Oldfield, vegetational changes, 255
 Oral cavity, *Candida albicans*, 88
 Owls, great-horned, interactions, 323
 Oxidative metabolism, bone fractures, 124
- Paddy's Run Creek, fishes of, 144
 Pappas, P. W., 152
 Pardue, W. M., 245
 Parr, D. F., 272
 Patten, Bernard C., 206
 Pennsylvanian gastropods, color patterns, 3
 Pennsylvanian sponge in Ohio, 296
Peromyscus leucopus, immigration of, 282
 Phillips, C. A., 259
 Photosynthetic response, soybeans, 267
 Piper, G. L., 304
 Planning activities in smaller cities, 136
 Plant nutritive levels, stripmined areas, 70
 Pleistocene mollusca, 111
 Poder, T. C., 82
Podophyllum peltatum, herbivory, 91
 Pohlman, J. T., 96
Pseudomonadaceae, floc-forming, 29
 Pugh Quarry, mineralogy, 272
 Punjab, bandicoot rat, 44
 Putnam, L. S., 69
- Rabalais, F. C., 106
 Radiocarbon-dated mammoth site, 103
 Ragweed, life of *Acropteroxys gracilis* on, 304
 Recombination, spontaneous drosophila, 310
 Rectilinearity and regression effects, 96
 Regensburg, J. T., 154
 Regression effects and rectilinearity, 96
 Regression models, multiple linear, 47
 Reproductive patterns, bandicoot rat, 44
 Reviewers, list of, 1977, 52
 Rhens, M. S., 100
 Rosen, S., 88

- Sagar, P., 44
Sampling technique, Bitterlich, 26
Schmidt, D. H., 29
Schmitt, J. A., 88
Seaton, W. H., 245
Serology, tularemia in domestic animals, 92
Shields, M. G., 106
Shore flies, Ohio, new records, 154
Slatko, B., 310
Slocum, R. D., 11
Smith, J., 103
Soybeans, altered chlorophyll, 267
Sphalerite, Pugh Quarry, OH, 272
Sponge, Pennsylvanian, 296
Spontaneous recombination, *Drosophila*, 310
Springer, M. A., 323
Stamper, H. B., 29
Stress effects, natural ecosystems, 160, 175
Stripmined areas, plant nutritive levels, 70
Sturgeon, M. T., 3
Sunbeam Prairie, Lacustrine deposit, 111
Systems approach to environment, 206
Systems approaches, integrated, 186

Terrestrial biologist, environmental impact assessment, 235
Thompson, J. N., Jr., 310
Treweek, D. N., 245

Trypanorhynchid cestode, urea catabolism, 152
Tularemia, serological study in animals, 92

Urea catabolism, cestode's use of CO₂, 152

Van Dyne, George M., 190
Vaughn, C. M., 290
Vegetational changes, oldfield, 255
Vessey, S. H., 282
Vocal responses of cardinals, 85
Vocalizations in chipmunks, 301

Warren, W. D., 136
Water resources, biologist's role, 225
White, G. C., 70
White-footed mice, immigration, 282
Whitewater River, fishes of, 144
Wistendahl, W. A., 26, 255
Woodruff, R. C., 310
Wright, R., 103

Yahner, R. H., 301
Yeasting, R. A., 119

Zooplankton, crustaceans in Lake Erie, 18